



Year 7 Milestone Criteria

Design & Technology

Assessment Objectives

- DT1 – Properties and uses of materials/ingredients
- DT2 – Research and design specification
- DT3 – Analysis of existing products

- DT4 – Developing and presenting design solutions
- DT5 – Planning and manufacture of quality products
- DT6 – Evaluation of own product
- DT7 – Knowledge and understanding of electronics
- DT9 – Knowledge and understanding of health and nutrition

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| PURPLE | DT1 | Apply knowledge of materials/ingredients and explain why they are appropriate for a product. | |
| | DT2 | Analyse research to create a justified specification. | |
| | DT3 | Apply the understanding of a brief to critically analyse existing products. | |
| | DT3 | Evaluate the analysis of existing products to create relevant design criteria. | |
| | DT4 | Develop a range of detailed and realistic design solutions to meet design criteria. | |
| | DT4 | Accurate use of graphic techniques and scale. | |
| | DT5 | Apply knowledge of manufacture by planning the manufacture of product. | |
| | DT5 | Adapt design and manufacture to overcome problems while making a product. | |
| | DT5 | Independently select and use tools/equipment with precision to manufacture a product from a plan. | |
| | DT5 | Manufacture a fully functional product with a high quality of finish. | |
| | DT6 | Use design criteria to critically evaluate a product. | |
| | DT6 | Explain realistic improvement to a product. | |
| | DT7 | Apply knowledge of electronics to fault find a circuit | |
| | DT9 | Apply understanding of the function of the main macronutrients when designing a balanced diet. | |
| BLUE | DT1 | Demonstrate an understanding of materials and ingredients when working with them. | |
| | DT2 | Consider the user's needs and justify specification points. | |
| | DT3 | Analyse products to build comparisons of similar products, justifying the points made. | |
| | DT4 | Accurate use of basic graphic techniques when presenting design ideas. | |
| | DT4 | Develop a range of annotated design ideas to meet a design brief. | |
| | DT5 | Apply knowledge of manufacture by selecting appropriate tools and processes. | |
| | DT5 | Read scales to measure and mark out materials with accuracy – within 1mm/25g/15ml. | |
| | DT5 | Manufacture a functioning product with a good quality of finish. | |
| | DT6 | Apply design criteria to evaluate own product. | |
| | DT7 | Explain the function of each component in a simple circuit. | |
| | DT9 | Explain the main function of the main macronutrients | |
| GREEN | DT1 | Explain the key differences between groups of materials and foods. | |
| | DT2 | Develop a list of 5-6 relevant criteria for a product specification. | |
| | DT3 | Use ACCESS FM system to analyse an existing product. | |
| | DT3 | Identify simple comparisons between similar products. | |
| | DT4 | Develop alternative design ideas to a design problem. | |
| | DT4 | Use labels to explain the key aspects of a design idea. | |
| | DT5 | Recall names of tools and processes used. | |
| | DT5 | Read scales to measure and mark out materials with some accuracy – within 1cm/100g/100ml. | |
| | DT5 | Can use larger, more complex equipment safely. | |
| | DT5 | Complete a functioning product, paying attention to quality of finish/presentation. | |
| | DT6 | Reflect on your product and suggest suitable improvements that could be made. | |
| | DT7 | Recall the names and functions of commonly used electrical components | |
| | DT9 | Recall the main function of the main macronutrients | |
| YELLOW | DT1 | Recall a names and key information about the materials used. | |
| | DT2 | Produce a simple list of qualities that a product should have. | |
| | DT3 | Highlight the positive and negative aspects of an existing product. | |
| | DT4 | Present a simple drawing of a design idea which meets the brief. | |
| | DT5 | Can use hand tools and equipment safely. | |
| | DT5 | Produce a product which functions adequately. | |
| | DT6 | List the positive and negative aspects of your own product. | |

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| | DT7 | Follow instructions to build a simple circuit | |
| | DT9 | Recall the food groups from the eatwell guide | |